RUDRAPRASAD CONSULTANTS
Structural Engineers, Architects &
Project Management Consultants

NAME OF WORK:- IMPROVEMENTS AND BALANCE WORKS TO AMBEDKAR BHAVANA IN WARD No.04 OF YELAHANKA SATELLITE TOWN SUB DIVISION

Name of Client : Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Contractor/ Agency: Executive Engineer, KRIDL, Bangalore.

Total Cost : RS . 59,99,126.2/-

Date Of Inspection : 24-02-20

Status Of Bill : First & Final Bill

In the Presence of : a) Assistant Engineer ,Ward no-4 ,Yelahanka division, BBMP, Bangalore
b) R. Karthik Rechan, Partner, M/S RUDRAPRASAD CONSULTANTS, BANGALORE

PMC COMPLIANCE REPORT

Sl. No.	Description of work	Comments/Observations
1	Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6.00 kgf/sq.cm working pressure 50mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
2	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure 25mm outside diameter chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
3	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 160mm outer dia. complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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4	Constructing brick masonry inspection chamber 600x850mm, and 450mm depth, (clear inside dimension) for pipeline with three or more inlets, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal , foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
5	Fabricating, supplying and erecting M.S. TubularTruss of span upto 10m. The bottom and top member is provided with 50x50x6mm double equal angles, welded back to back and in between top and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all themembers including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc.,ccomplete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
6	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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7	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
8	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
9	Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kgf/sq.cm working pressure 63mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
10	Providing and fixing in position 100mm nominal bore non-return valve vertical type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
11	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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12	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
13	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete).complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
14	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint.	Work done upto the Billed Quantity and the Quality is satisfactory
15	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour,complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
16	Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per Specification and as directions of the Engineer-in-charge of the work.(For 1000 litre capacity)	Work done upto the Billed Quantity and the Quality is satisfactory
17	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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18	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per Specification and as directions of the Engineer-in-charge of the work. - with primer.	Work done upto the Billed Quantity and the Quality is satisfactory
19	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
20	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per Specification and as directions of the Engineer-in-charge of the work - with primer.	Work done upto the Billed Quantity and the Quality is satisfactory
21	Fabrication supplying and erecting M.S. tubular trusses of all spans with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge and polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the. members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, letc., complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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22	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
23	Pg No 128,Item No 15.73 KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
24	Providing and Fixing Ambedkar Statue ,complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
25	Open Conduit System.Supplying heavy gauge PVC conduit pipe .....dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes,adhesive paste etc., and fixing using inverted woodplugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.19/20mm dia 2mm thick, complete as per Specification and as directions of the Engineer-in-charge of the workk	Work done upto the Billed Quantity and the Quality is satisfactory
26	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 6Way, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
27	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete.6 Way,complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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28	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete.8 Way,complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
29	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 1.5 sqmm, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
30	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 2.5 sqmm,complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
31	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 4 sqmm, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
32	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6Amps one way Switch, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
33	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6Amps 3way socket, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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34	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6Amps 3way socket, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
35	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 293.16Amps one way switch, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
36	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 293 /16Amps universal socket,complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
37	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size…mm conduit using necessary machine screws.110mm, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
38	Supplying of Ceiling Fan with Capacitor rating As per guideline of BEE 5 star rating and IS:374/79 and also comply with IS:1709/1984 with latest amendment, Rated voltage 220 V/ 50 Hz, Rated power input 48 W +/- 10 %,Rated current As per IS:374/79, Rated power factor 0.9 lagging(min), Rated speed 350 +/- 10% RPM, Rated air delivery 210 +/- 10% Cubic Meter Minimum, Rated service value ≥ 4.2 CMM / Watt, Three Blades of blade leaf 1.05 mm thick Aluminium Alloy sheet, Class B motor insulation,Bearing Two ball bearings, Top 6202, Bottom 6201 , as per IS specification, Motor wdg. Temp rise Shall not exceed 75 deg C over and ambient of 40 0C by resistance method at 245 Volts, Insulation resistance Shall not be less than Two Mega Ohms (2 M Ohms), Leakage current Should not exceed 210 Micro Amp, Power input, watt& current , Air Delivery & Fan Speed as per IS:374/1979 with latest amendment, 2 year manufacturer Warranty 48" Sweep 5 Star (1200mm), complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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39	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete12" Sweep (300mm), complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
40	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete15" Sweep (450mm), complete and as per the directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
41	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 3.5 core 35 sqmm, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
42	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 3.5 core 120 sqmm, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
43	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure25 sqmm to 75 sqmm, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
44	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.95 sqmm to150Sqmm, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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45	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
46	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only)25mm dia, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
47	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only)45mm dia, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
48	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.35 sqmm Long Barrel, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
49	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.35 sqmm Long Barrel, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
50	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.120 sqmm Long Barrel, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
51	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode.The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required.600x600x3mm Copper plate, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc.8 SWG Copper wire.complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
	Fabricating supplying and mounting MS box made out …SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete.16SWG, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminium strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board.The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.100Amps 4x30x6mm Aluminium Strips, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.40 Amps TPN, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 100Volts as per IS-694:1990.3C X 2.5Sq.mm, complete as per Specification and as directions of the Engineer-in-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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